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U. S. Department of Agriculture - Forest Service CENTRAL STATES FOREST EXPERIMENT STATION In Cooperation With Ohio Agricultural Experiment Station

OHIO DIVISION OF FORESTRY

Technical Note 18.

August 15, 1940.

VOLUME TABLE for BLACK WALNUT (Juglans nigra) Stark County, Ohio

Merchantable	Stem to a	Variable To	op Diameter		INTERNAT	NOMAL Rule	$e^{(\frac{1}{4}^{11} \text{ Kerf})}$
Diameter breast high	Volume of stem in 12.3-foot logs to merchantable height						
outside bark (inches)	l log	2 logs	3 logs	4 logs	5 logs	6 logs	in trees
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Number
8	6	-	-	-	-	-	1
9	9	21		-	-	=	1
10	13	30	46	-	-	-	4
11	17	39	61	1 704	-	-	9
12	22	49	77	104	-	-	8 7
13 14	27 33	61 72	95 114	129 155	-	-	6
15	38	83	133	180	230	279	5
16	44	95	150	204	264	317	7
17	***	107	169	230	294	354	3
18	_	120	187	255	325	391	7
19	_	132	205	280	356	430	4
20	_	145	225	307	390	468	4
21	_	157	244	334	422	509	ī
22	_	171	264	360	455	549	2
23	_	183	284	386	489	590	2
24	_	-	305	413	522	632	_
25	-	-	325	442	560	676	***
26	-	_	347	472	596	722	•
27	-	-	372	506	638	773	
28	-	••	399	542	684	826	1
29	-	-	429	582	735] 889	2
30	-	-	463	630	796	962	1
31	-	-	511	692	875	1057	-
Basis in trees number	14	18	, 23	12	6	2	75

Trees climbed and measured by personnel of Work Projects Administration Official roject 65-1-42-166 - "The Ohio Woodland Survey." Measurements taken at 16-foot log lengths above a 1.0-foot stump height. Scaled as 16-foot logs, and additional shorter top logs; top sections less than 8 feet in length scaled as fractions of an 8-foot log. Table prepared in 1940, by the equation method. Coefficient of multiple correlation (R) = 0.985. Standard error of estimate, 82.2 to 121.6 percent. Block shows limits of basic data.

A. G. ADMAN.

